

**Notice of Allowability**

Application No.

09/529,440

Examiner

Thai D Hoang

Applicant(s)

HAMADA ET AL.

Art Unit

2667

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 11/15/2004.
2. ☒ The allowed claim(s) is/are 16-17, 3 and 7-14 have been renumbered as 1-11 respectively.
3. ☒ The drawings filed on 13 April 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### ***Allowable Subject Matter***

Claims 16-17, 3 and 7-14 have been renumbered as 1-11 respectively.

Claims 1-11 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Andersson et al, US Patent No. 6,240,125 B1 disclose "Method and means for frequency hopping in a FDMA or TDMA or CDMA radio communication system". Ueno, US Patent Application Publication No. 2003/0022692 discloses "Method, wireless network system and base station thereof for controlling power to send radio waves from a base station connected with a network system". Both Andersson and Ueno do not teach or fairly suggest the following features, which are recited in the independent claims 1 and 2:

A base station apparatus for communicating with a plurality of subscriber stations on a TDMA wireless communication manner, comprising:

an interference time slot database for registering/storing therein a communication time slot in which interference happens to occur; and a TDMA control unit for executing reallocation/rearrangement of time slots communicating with the respective subscriber stations in response to a change in a traffic based upon the interference time slot information of the interference time slot database;

wherein when interference is detected in a time slot received from a subscriber station, interference time slot information about said time slot in which interference is

detected is registered into said interference time slot database; the time slot reallocation/rearrangement are carried out based upon registered information of said interference time slot database such that said time slot in which interference is detected is reassigned to one or more time slots where no interference has been detected; and also time slot reallocation/rearrangement information is transmitted to the respective subscriber stations, and

(a) wherein time slot allocations/arrangements of all respective ones of said plurality of subscriber stations are changed once each super frame of a TDMA frame transmission structure, and wherein said base station transmits to the respective subscriber stations subsequent time slot reallocation/rearrangement information containing new time slot arrangements, over a plurality of frames within a super frame period as recited in claim 1; or

b) wherein a service area of said base station is subdivided into a plurality of sectors, and wherein said TDMA control unit executes time slot reallocation/rearrangement first to subscriber stations in sectors where no interference has occurred, and then to subscriber stations in sectors where interference has occurred as recited in claim 2.

Claims 3-11 are allowed for reasons given in the previous action filed on 06/15/2004.


**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-18:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

  
CHI PHAM  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600 2/1/08